FEEDING STOCK DUCKS

A Number of Things to Be Observed if You Are to Have Ducklings Ready For Early Market.

duce the quantity of food; if too lean

Should grain be provided oats are

If the birds are becoming rather too

and chopped up, answers the purpose

being able to obtain sufficient for

It should be the aim of those who increase it It should be the aim of those who require early ducklings for the market to have stock birds in full lay by the end of October or the first of November-that is, before the severe weather taken into the system

In order to accomplish this the feed-For the afternoon feeding either In order to accomplete and October For the atternoon teeding entire ing during September and October hard grain or mash may be supplied, must be carefully attended to and the Personally I prefer the latter, but many nutritious rather than fattening food breeders are in favor of the former. be provided for the birds.

By this time last year's ducks should the best for the purpose, which should have quite overcome the molt and be scattered upon the drinking water. should have their full complement of otherwise there is too much husk. If feathers.

As far as possible an abundance of mash is employed—and the two may be fed on alternate days-the same exercise should be allowed the birds, ture as that for the morning feed will and this can only satisfactorily be arranged when a free range is provided. If the bird The chief danger of confining them is fat, the proportion of bran should be that under such conditions they are increased and the barley meal dehable to add on flesh too quickly, and creased. no account should stock ducks be

The difficulty can, of course, be over- trampled on and made unfit for concome by feeding sparingly upon some- sumption. what bulky foods.

morning and the other about 3:30 or 4 ulated ment, or butcher's refuse, boiled

in the afternoon. Soft food should be provided for the admirably morning meal and a mixture during The latter gives equally as good rethis and the succeeding month which sults as the former and is considerably we have employed with success is two cheaper. Green food should be given parts of the middlings, one of the bar- liberally to the ducks when they are ley meal, one of bran and one of brew- kept in confinement, those at liberty

At first there may be a slight diffi- themselves. culty in persuading the birds to eat the During the winter months, when last mentioned, but they speedily be- green food is scarce, turnips, swedes, come accustomed to the flavor and eat mangels or potatoes form an excellent

readily.

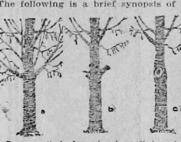
A mixture such as this will keep the The ducks at liberty can of course ducks in good store condition and will procure all the drinking water they reassist egg production at the proper quire for themselves, but those in runs time. No hard or fast rule can be laid must be well supplied. down as to the actual amount of food to be supplied, as this varies with the drink a large quantity immediately breed and the conditions under which after eating, as this causes a large porthe birds are being kept and with the tion of the food to pass straight through the body.

The only thing to do is to periodically examine them, and if too fat re- however, they may have all they want.

ABUSES IN TREE SURGERY

VALUABLE DIRECTIONS AS TO PRUNING, FILLING CAVITIES AND GENERAL CARE OF SHADE TREES.

beautiful shade trees of that state. rot is likely to result, and the cleaner The soft food should always be sup-



The soft food should always be fed from a trough, otherwise so much is G. E. Stone and H. T. Fernald of the ling, and on limbs of any size it is nec-



Cavity properly filled with re-inforced cement.

BY J. MILTON KELLY,

The following is a brief synopsis of a the cut the better it will heal. There is, moreover, less chance for subsequent rotting. Many of the cavities in the trees are caused by leaving long stubs on the trunk of the tree, which become dis-integrated and fall off and the decay ollows back into the heart of the

> It is therefore essential that close pruning and antiseptic treatment of the wounds should be practiced in order to prevent this decay. The plastle naterials in a tree will not follow up long stump and form a callous unles ere are some branches left upon it which bear leaves, and even then healing will take place only close to the living branch on the stump.
>
> Two cuts should be made in pruning ing of the wires.

On country roadsides pruning should essary to make the incision on the that bulky foods.

A little lean meat is very beneficial be high enough so that the limbs will not interere with the hay and wood with the limbs with the hay and wood outs.) After removing the limbs with Two meals a day will be found quite for stock ducks and should be mixed not interere with the hay and wood a saw a mallet and chisel may be used morning and the other about 3:30 or 4 ulated meat, or butcher's refuse, boiled to smooth up the cut surface. This

induces a better callous growth.

It is well to prune carefully at the time of transplanting, when all street trees should be trimmed up eight or ten feet or more. It is also often nec-essary to cut back some of the branches in order to balance the root ystem, and when this is done some of the less desirable branches may b be cut back to some extent.

jurious and should never be resorted to except in special cases. All of the reserve material in the tree is stored the roots, stem and branches, and in a transplanted tree this is sufficient to evelop the foliage. It is necessary that a tree should

have a certain amount of foliage for growth and development, since the rapidity of growth is dependent upon In filling cavities in trees great care

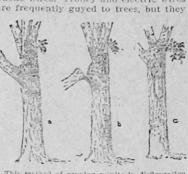
wet enough. It should be well trow-Exposed tissues in cavities should be treated with creosote to serve as an antiseptic.

The cement should be flush with wood and the cavity so shaped that it forms a wedge, thus preventing the cement from falling out. In case this cannot be done, iron bars tied to the sides of a cavity will be effective. shade it can be built by one man in two days or less time.

Unless the cavity is the close as possible to the tree, and cuts wood underneath the filling will con-

HOW TO MAKE THE SOIL PAY

Up a Profitable Dairy Business.



are a source of danger from the crossinto contact with limbs some kind of



This device consists of a wooden or ement trough eighteen inches wide, our een inches deep and long enough in diameter should be painted with be destroyed.

PUT THE BARREL ASIDE

Small Packages for Apples-Old Fashioned Barrel Being Discarded for Square Compact Box.

profitable to use a smaller package in packing a three-bushel barrel than barrels in which to pack apples.

will cost more than the latter package; box of apples can be taken home on the packages will be placed closer together in storage, preventing as free Few families can take a barrel of

chanic will be required to make up from the storage.

the packages, whereas high-priced It is well known that when fruit is

Boxes can be exported more cheaply, ripens very rapidly wing to the fact that space in stor-

box is that the fruit would reach the grape basket.

Consumer in better condition, and the And when t

The last point is one of the strongest in favor of the use of the box. If the of a certain grower and packer, and consumer knows he is getting just let him know the package he buys is what he wants he will be willing to the original one in which the fruit left

There has been much discussion will unquestionably be greater care examong apple packers as to where it is ercised in packing a bushel box than

refitable to use a smaller package.

The fruit will be better and whi have the confidence of the consumers. Under the present method of packing apples. the box are: The smaller package can in barrels few city people are able to receive rougher handling in shipping, as the three-bushel barrel cannot be pitched around; three boxes holding is hard to handle. It must be delivered the same quantity of fruit as a barrel by an express wagon, whereas a small

apples from cold storage and use the The points in favor of the boxes are entire three bushels, without considummed up: The box timber can be cought in the flat and no expert me- of the barrel are first-class when taken

skilled labor is needed to make up the kept in a warm pantry or cellar it

Few families can use the contents ge departments of steamers is sold by of a three-bushel barrel before some the cubic foot, and the boxes can be of the fruit has deceased. In the case When the fruit is placed in storage the fruit in the middle of the package will be more readily reached by the cold air, and the entire package will be more readily reached by the cold air, and the entire package will be a demand for more.

The largest possible package will be a demand for more.

cold air, and the entire package will reach the lower temperature much sooner with the smaller package. sooner with the smaller package.

In using the smaller package there will be no temptation to put inferior fruit in the middle of the package, as seem about the extreme limit in size,

there often is when packing a barrel and it may be the time will come when fancy apples will be packed in small chief argument in favor of the baskets, similar to the eight-pound And when that time comes the con-

consumption would be greatly in- sumption of apples will be multiplied many times.

Get the consumer to trust the brand buy a bushel of fruit, where now he the farm, and he will not hesitate to buys perhaps a dozen apples. There pay a good price for the fruit.

About the first thing to do is to make a careful trip over every rod of fence on the place. Nail on every loose board and mark all other places that need greater repairs, to be made next day. Don't put off whitewashing and pre paring the poultry houses. Make them

Weed out the strawberry bed before the fall rains come of

Sow kale and spinach this month for

frames

Give the celery a bit of nitrate of oda; it will stimulate growth.

Cut second-growth clover and put soda; it will stimulate growth.

Cut second-growth clover and put litter should be closely confined in

Weed out the flock. Sell off the old

Essential Principles That Must Be Understood in the Work of Building

income, which if his specialty be pota- rich in nitrogen and bring up from the breeds are economical producers of twice in succession. If the farm affords large quantities Bad plan to wait till the wagon is growthy and muscular pigs that are

prove economical producers and well adapted to your line of business. If, on the other hand, your farm is rough and rolling and your pastures are large and the forage scant, the Ayrshire cattle will prove the most economical producers, for they have Prince, a champion Shetland pony and been developed under similar environ- tund body and its legs be short and not buckled at the knees Whatever breed is selected should be



perous live stock prepositions.

SEPTEMBER WORK ON THE FARM CARE OF THE SUCKLING PIGS

They Must Have Clean, Warm Quarters to Protect Them Against Weather Changes.

BY R. B. RUSHING Ozark, Ill.

September and October are the fall early spring use.

The flea beetles will be after the turing into existence then are farrowing season. The little pigs com-The flea beetles will be after the direction of the month sow cabbage and cauliflower in drills if you intend to winter them in cold in the cold in th

the lambs for fall market all plg gains its strength and is able to warm, sunny quarters until each little the good feed they can take care of battle for its existence among the other more sturdy brothers and sisters.

Many little pigs are delicate for a ewes, but keep the very best for breed- few days, but if they are given a little special care just at the proper time Feed is plentiful now, and this is a they will commence to grow good time to rush fat on the old cows stronger ones, and the result is a nice, a Profitable Dairy Business.

| Intended for the butcher. | Do not be in a hurry to shoe the horses unless they are to go on the road. Let them go unshod till the litter consists of eight or ten and they grow very rapidly there is

Farmers may be divided into two classes. First, those who may be divided into two classes. First, those who may be increased in ground freezes.

Farmers may be divided into two classes. First, those who may be divided into two classes. First, those who may be increased in ground freezes.

The hear for caring for his cattle, milk and its products.

The next matter to decide is that of a rotation that will build up his soil and afford food for his dairy cows.

The dairyman who has saved and applied to and study how near he is to railroads, markets or cities, and what kind of conveniences he has for caring for his cattle, milk and its products.

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You do not want a lot of little fat Do the wagon tires need resetting? chunks, but you want vigorous, building up a frame on which to lay fat when the time comes for fatten-

I teach my little pigs not to depend entirely upon their mother just as young as possible; I partition off a little pen, leaving a hole through which they can pass, and small enough to keep the sow out, and supply them with a little skimmed milk and a small amount of shorts, giving them at each feed just what they will clean up, yet feeding liberally and keeping the

up in his barn a big card containing "DONT'S."

Don't put the calf into a small per Give it plenty of room. "Don't put the calf in a cold build

Don't sit in a crouching positio when milking. "Don't milk the pall full to the brit

and then kick the cow if she spill "Don't strike at the cow that strike

at you because her teats are sore apply a little vaseline to them "Don't fail to wash and dry you hands before milking.

"Don't put your fingers in the milk. Don't milk without first having

brushed your clothes."

Keep a similar card nailed up in your barn and see that everybody lives

Keep Young Chicks on Clean Ground Where Other Fowls Have Not Trampled.

THE GAPES AND THE CURE

BY S. C. MILLER.

Strictly speaking, gapes cannot be called a disease, since chicks that are so afflicted are in a physically perfect condition. The trouble is caused by a Insert a small red worm, or rather by a collection of such worms, which gather in the other to carry off the overflow. windpipes, and as they grow interfere with the breathing and cause the chicks

to gasp and after awhile strangle. The worm is the larvae of eggs de-The worm is the larvae of eggs or vessels of different depth may be posited in the filth of the yards or placed partly submerged in the water taken into the chick's throat.

They are, when full grown, about one inch long, and very much resemble a pale streak of blood.

Incubator chicks and those which run on clean grassy plots, away from the haunts of the older fowls, are never known to have gapes, while, on the

the yard, house and walks, and see that only fresh water and pure food are

given the chicks.

If only a few chicks are affected they may be relieved by inserting a feather stripped to within an inch of the building. It is never a good the gently as it is withdrawn. The thus give the relief sought.

Violent sneezing will dislodge the

worms and give relief, and this may be produced by fumes of tobacco smoke or carbolic acid. If using tobacco catch the chicks and put them in an ordinary bushel feed basket, with any kind of an old cloth thrown set the basket over a barrel with both heads out and place the tobacco on some live coals in the bottom.

Watch the chicks carefully, so that they do not smother, but let them re-The sneezing thus produced will give poultry house, because they harbor inmain until they become quite dizzy When using a feather hold the chick

between the knees, with back toward you. Then, with the left forefinger and

A small piece of camphor the size of a pea will often give relief, as will also an up and down pressure on the fore part of the neck.

When the first sign of gapes appears the chicks should be removed to coops as far distant as possible from the great deal to do with keeping us in house and kept there until they have when first hatched there will never be ceed.

a case of gapes among them. SHEEP RAISING

No use to go into sheep raising unless you have patience, tact and great

A HANDY COOLING DEVICE

People who are without cellars need not give up the idea of having a cool place to keep butter or any perishable food that can be put into crocks or

A splendid cooler with a shed to

fourteen inches deep and long enough to hold the house supply of crocks, cans Insert a piece of gas pipe at each

To give enough pressure to run a full stream of water through the trough the intake should be two inches higher than the outlet.

and is hatched after being placed partly submerged in the water and is hatched after being by using a raised bottom in one end his false bottom can! be made of laths nailed an inch or two apart. A tight-fitting lid is necessary to

keep out the dust and insects.

Put the cooler between the well and your stock tank and pump all the water known to have gapes, while, on the other hand, those which run in yards which are bare of grass, where fowls have been kept year after year, will almost invariably have gapes.

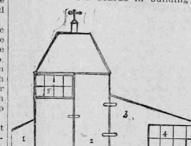
Just guard against the disease by observing a few simple rules, is the best advice. Keep all young chicks on clean ground, away from the house.—Theodore Ingels, Utah where old fowls have not trampled over it.

A LIGHT AND AIRY POULTRY HOUSE

Inself of the business that is to be possible to the form of the business that is to be pour and freed in a same to that particular density on branch of the business that is to be young stock.

The dairyman who has saved and applied all of the manure crop is not compelled to pay out a large amount of money every spring for a few tons bound and those it thoroughly. The dairyman who has saved and applied all of the manure crop is not compelled to pay out a large amount of money every spring for a few tons bound and those with thoroughly and, secondly, those who believe are source fails they will have something of money every spring for a few tons above described method, but we are not all fortunate enough to have springs on clean ground, away from the house.—Theodore Ingels, Utah over the house.—Theodore Ingels, Utah of the business that is to be your special line of work. If you have a warm stable and comfortable surproundings—in fact. I may say Jersey of the box would not when the solic is all ready for the business that is to be your special line of work. If you have a warm stable and comfortable with soft the business that is to be your special line of work. If you have a warm stable and comfortable ever foundings—in fact. I may say Jersey of the solic is all ready for the business that is to be your special line of work. If you have a warm stable and comfortable ever with money crop should be a warm stable and comfortable with foundings—in fact. I may say Jersey of the work life and the work are feeling thanks the other proundings—in fact. I may say Jersey of the work life and the work are feeling hand, those which run in yards used on the place through it. You will

This poultry house can be built by any ingenious farmer from the drawings and descriptions given here. The framework should be made of 2x4
The f



sects. cover thoroughly with paint, inside and

assed the danger age.

The farmer who cannot see over the handle of his plow will never suc-

reming and also the strong points of experiments are numerous of the strong points of either the dairy business is what particular he dairyman can make a specialty branch of dalrying his farm is adapted adapted to the farms where dairying is of that one branch of the business that to. This must be decided according to the special line of business. GOATS AS TRAIL MAKERS

secure of the full dispersion of the common dispersion of the case of the straight road.

The farmer who cannot see over the handle of his plow will never succeed the man who is forever defending his actions is sure to raise suspicion against himself—and generally there is a good reason for it.

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The man who is forever defending his actions is sure to raise suspicion between the first pender in california, where there is a good month to look and the propular will be prompted to this country of the header of his plow will never succeed the man who is forever defending his actions is sure to raise suspicion between the production against himself—and generally there is good reason for it.

The man who is forever defending his actions is sure to raise suspicion of the desired production against himself—and generally there is good reason for it.

The man who goes singing to his interest of the first pender in a containing only one clement, such as her of the case of the brushy areas on the slopes of the brushy areas on the slopes of the brushy areas on the slopes of the case of the cultivation.—C. I. B.

A WOMAN IN THE CHICKEN YARD

Well up. Always avoid one that has a boout for stock, and if one has not already settled upon a particular variety.

September is a good month to look about for stock, and if one has not already settled upon a particular variety.

It should be remembered as a basis for guidance that the maximum yield of any crop is determined and gauged by the fertilizer of the case of the chicken YARD

Well up. Always avoid one that has a boout for stock, and if one has not already settled upon a particular variety at his not to the same propertion to the strainty and the propertion of the strainty and the propertion of the strainty and the p

less you have patience, tact and great perseverance.

In selecting a sheep pasture avoid low, damp ground, because sheep will man who goes singing to his work often, unconsciously, puts good low, damp ground, because sheep will not thrive on it.

Soil underlaid with limestone or dream and the lass and the same perseverance of the state it as any other respond to anybody.

The good character of our children more than the cultivation more than the cultivation more than the cultivation of our crops, but some of using state that was pround.

Sheep are probably more delicate and more cashly affected be climated that we sheplered the same perseverance of the state it as any other farm animal. The wise sheplered does not was a splied to every-day conditions.

The was sheplered to every-day conditions.

The was sheplered to every-day conditions.

A farmer may have a pile of manure change the opened and then kept free of personation to prevent the disease of the control of th

A COMPLETE FERTILIZER

both the strong points of specialized show a prosperous appearance.

ferior animals, and by the use farming and also the strong points of

The first important matter for a best sires that can be obtained.

is fortune.

The strong point of diversified farmand when it is properly conducted it.

ing is that it is safe. If one crop fails not only pays good profits every month

you probably have another which will in the year, but it constantly adds to

farm work you will not have a thorough understanding of each branch and

help you out. Its weak point is that the dividend paying value of the farm

The figures in the cut represent the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following of the brush-eating instinct of the Anticological constitution of the seasy to reach in groom; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and, 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratching room; 4 and 5, windows, and 6, gora goat is being successfully demonstrated by the following: 1, nests; 2, door; 3, scratch in California, where they are cutting bly a complete fertilizer in place of one

"Without humus there is no fertility ents to be lost in cultivation."-C. I. B.

ferior animals, and by the use of the

feed and attention

trough clean. A well-managed dairy farm combines houses, barns and farm equipments proved by weeding out all of the inactive and the wounds heal quickly and are well before the pigs are weaned and this will cause no setback in their development. GOOD IDEA A well-known dairyman has nalled